From:

Dennis Clarke

Sent:

Wednesday, April 23, 2003 5:02 PM

To:

Blum, Mike (ECY)

Subject:

Comment on consent decree, cleanup action

plan,RI/RA/FS

Mr. Blum,

Thank you for the opportunity to comment on the above referenced documents. We appreciate the work of Ecology and the companies in preparing, reviewing, publishing and supporting complete and very readable documents. Your information workshops along with the one sponsored by your grant recipient, DToxCop, was very helpful to our Planning Agency, who reviewed the documents as well. The City remains concerned that a separate schedule needs to be worked out to cap the old rail line corridor down the entire length of the Sequalitchew Creek Canyon, not just for the portion within the consent decree area. Our concern is that this area should receive priority treatment and be done ahead of other work, since it doesn't need a grow in period as the golf course cap does to be effective. This area is important to the City because the consent area currently limits public access to Puget Sound at its only practical access point.

Thank you for your consideration of these matters.

Dennis Clarke Planning Director

City of DuPont

From: Lorraine Overmyer

Sent: Wednesday, April 23, 2003 4:20 PM

To: Blum, Mike (ECY)

Subject: Toxic Waste Cleanup Project

Department of Ecology Unit Supervisor for Toxic Waste Cleanup Program

Attention Mike Blum:

During our review of the Toxic Waste Cleanup Plan, we found several statements that are of concern to us.

The statement "the Mission Site has not been located" is contradictory to all of the findings by a number of people who have been working on this project for a many years. Both Archaeologist Lee Stillson and Guy Morua did studies for an earlier Weyerhaeuser report and stated they believed the Mission site was located on the north side of the creek. In addition, much research has been done by members of the Nisqually Point Defense Group, The Committee For The Preservation of The Nisqually Mission, headed by Dr. James Edgren. The Nisqually Delta Association and The DuPont Historical Society.

On a site tour, Lee Stillson found fragments of brick in the area of the Mission marker, believed to be from the Mission chimney.

When the Weyerhaeuser Company removed the marker placed on the site by the Washington State Historical Society in 1927 for storage during cleanup of the area, they stated the site was marked on a map and that the monument was returned to the location where it now stands.

Our other concern is the statement in Section 1.5 of the Feasibility Study which describes land use areas. This states the land north of the creek will be designated for industrial use, while the area south of the creek will be used for historical, recreation and commercial activities. In that we believe the Mission site is located on the north side of the creek, this statement gives us great concern.

Lorraine Overmyer DuPont Historic Society

From:

Duerr, Miriam

Sent:

Thursday, February 06, 2003 9:03 AM

To:

NANCY HANRAHAN

Cc:

Blum, Mike (ECY)

Subject: RE: Dupont WA. Cleanup

Nancy, sorry for the confusion. We provided a more specific web address, but the Olympian chose not to print it. Here is the correct link:

http://www.ecy.wa.gov/programs/tcp/sites/weyer/weyerhaeuser.htm

Please let me know if this works for you and if you need any other info. Good luck!

Miriam Duerr, Public Involvement SWRO Toxics Cleanup Program (360) 407-6265

----Original Message----

From: NANCY HANRAHAN

Sent: Monday, February 03, 2003 9:38 PM

To: ECY RE HSIO

Subject: Dupont WA. Cleanup

The Daily Olympian ran a article on 1-28-03 on the front page of their paper and I can not find any information in your website. Article was titled "State has deal on Dupont site cleanup. Please tell me how I can follow this action. Nancy Hanrahan.

	·	

From: Duerr, Miriam

Sent: Wednesday, February 12, 2003 2:02 PM

To: Blum, Mike (ECY)

Subject: FW: Dupont WA. Cleanup

Here's that e-mail I was telling you about. I have not responded.

----Original Message----

From: I WANCY HANRAHAN

Sent: Thursday, February 06, 2003 7:02 PM

To: Duerr, Miriam

Subject: Re: Dupont WA. Cleanup

Dear Ms. My concern about the Dupont cleanup site is that I have a client who is very ill and she has been working in the new State Farm Insurance Building. I am wondering if her illness could be environmentally caused. She has been diagnosed with fibromyalgia, but as we know, that diagnoses covers a lot of territory. 10 or or 15 years ago I came upon this site while looking for waterfront property. I was driving around Dupont and came to a dead end with a cyclone fence, a tower with a huge siren on top of the tower. I parked; a guard of some kind appeared and as we chatted he told me that the trees along the freeway were covered in dynamite dust and if one fell down the whole area would go up in explosion. He said that all the dirt in the area was laced with dynamite. Secondly, I was wondering if dynamite can be a source for perchlorate contamination of the water table and water sources. Thank you for your prompt response. Nancy Hanrahan

Message Page 2 of 2

From: Duerr, Miriam

Sent: Wednesday, February 12, 2003 2:02 PM

To: Blum, Mike (ECY)

Subject: FW: Dupont WA. Cleanup

Here's that e-mail I was telling you about. I have not responded.

----Original Message----

From: I NANCY HANRAHAN

Sent: Thursday, February 06, 2003 7:02 PM

To: Duerr, Miriam

Subject: Re: Dupont WA. Cleanup

Dear Ms. My concern about the Dupont cleanup site is that I have a client who is very ill and she has been working in the new State Farm Insurance Building. I am wondering if her illness could be environmentally caused. She has been diagnosed with fibromyalgia, but as we know, that diagnoses covers a lot of territory. 10 or or 15 years ago I came upon this site while looking for waterfront property. I was driving around Dupont and came to a dead end with a cyclone fence, a tower with a huge siren on top of the tower. I parked; a guard of some kind appeared and as we chatted he told me that the trees along the freeway were covered in dynamite dust and if one fell down the whole area would go up in explosion. He said that all the dirt in the area was laced with dynamite. Secondly, I was wondering if dynamite can be a source for perchlorate contamination of the water table and water sources. Thank you for your prompt response. Nancy Hanrahan

From:

Blum, Mike (ECY)

Sent:

Wednesday, February 12, 2003 4:26 PM

To:

NANCY HANRAHAN Subject: RE: Dupont WA. Cleanup

Hello Nancy Hanrahan,

I am the Ecology project manager for the Weyerhaeuser-DuPont cleanup site. I was forwarded your e-mail and I will respond to it.

What the "guard" told you was totally wrong. The trees are not covered with dynamite or any other contaminants associated with the former DuPont Works site. The dirt in the area is also not laced with dynamite. If a tree fell down, it would just go crash, not boom. The freeway is about one mile or more away from the former DuPont Works cleanup site. There is contamination at the site, the remaining contaminants are mostly lead and arsenic. There are not any off-site impacts beyond the chain link fence that surrounds the 636 acre site. The area where the State Farm building was erected was not impacted by any activities of the former DuPont Works plant and like the freeway, quite a distance from the cleanup site.

From your description "I was driving around Dupont and came to a dead end with a cyclone fence, a tower with a huge siren on top of the tower." Was that in the Village of DuPont, or just past the Village down the main drag through the town? If so, I believe that tower with the siren on top was part of the former Civil Defense System and possibly related to the DuPont Works site, in case there were emergencies/explosions at the plant.

I recently heard from a knowledgeable person that perchlorate has been tested for at other similar commercial explosives plant and was not found. The municipal water supply wells for the City of DuPont are located upgradient from the cleanup site and are clean. The cleanup site has low levels of DNT (dinitrotoluene) in groundwater but there is no possibility of that contamination getting into the City Wells located on Bell Hill area.

I am sorry your client is ill and has fibromyalgia, but I do not believe there is any connection to the former DuPont Works cleanup site. A friend of mine has/had fibromyalgia and got relief with therapeutic massage. Not sure what else she did, but I haven't heard her talking about it for quite a while.

Mike Blum

Ecology project manager (360)407-6262 mblu461@ecy.wa.gov

----Original Message----

From:

NANCY HANRAHAN

Sent:

Wednesday, February 12, 2003 6:16 PM

To:

Blum, Mike (ECY)

Subject:

Re: Dupont WA. Cleanup

Thanks Mike; that releives my anxiety. Nancy Hanrahan

To:

Blum, Mike (ECY)

Subject: FW: Ansers to your questions re: the former DuPont Works site and the Northwest Landing

development

----Original Message-----From: Blum, Mike (ECY)

Sent: Monday, April 14, 2003 9:51 AM

To: 'R. Gale'

Subject: Ansers to your questions re: the former DuPont Works site and the Northwest Landing development

Hello Ms Gale,

Here are some answers:

The house site we are now considering for purchase is a few blocks from the fence line of the Dupont works site. There is a new phase of houses opening up on the other side of Center ST. I am wondering if it would be safer to live at the new phase because of the cleanup that will go on at the works site. I don't believe it will be less safe being closer to the DuPont Works site during the cleanup.

Would you live and have your children live, a few blocks from the Dupont works site as it is being cleaned? Based on their (Weyerhaeuser and DuPont companies) past quality performance in cleanup at the site and attention to safety, and of course the oversight of the Department of Ecology, I would have no fear of living with my family a few blocks from the DuPont Works site as it is being cleaned up. The concern is wind-blown dust during excavation and scraping of the contaminated top layer of soil. That has not been a problem in the past.

The Olympia, Tumwater area is another area we are considering purchasing a home in. Do you know of any ecological problems in these areas that we should be aware of? I am unaware of any overall ecological problems in the Olympia/Tumwater area. There are location specific problems due to leaking underground storage tank (LUST) or contamination from prior practices at some business and industries, as well as probably some residential properties. You can look at the Ecology databases of LUST sites as well our Confirmed and Suspected Contaminated Sites list at the following web address: http://www.ecy.wa.gov/programs/tcp/sites/sites.html Look at the Confirmed and Suspected Contaminated Sites Report and the UST/LUST list.

I am also wondering what the Lead levels that were found near North West Landing are.

Message Page 2 of 4

The lead levels in soil surrounding the DuPont Works site, but not at the cleanup site, ranged from less than 6.4 parts per million to 57 parts per million. The soil-lead cleanup standard is 250 parts per million. Higher lead concentration were found at the cleanup site itself.

How far was the Dupont works site cleaned before the development near it began? Is the ground water in North West Landing safe and separate from the water on the site? A one foot deep layer of contaminated topsoil by about 300 feet wide was removed from the southern fence line prior to that new section of homes being built. A lot of other cleanup work has occurred over the past 11 years, primarily removal of the higher concentrations of lead and arsenic in soil around the facility. The drinking water for the City of DuPont, which includes all of the Northwest Landing development, is clean. The production wells are in the Bell Hill area and are upgradient from the groundwater contamination at the cleanup site and have not and will not be impacted in the future.

I believe that answers the questions you had in several e-mail. Call or write again if you have more questions or concerns.

Mike Blum

Department of Ecology - Toxics Cleanup Program

407-6262

-----Original Message-----From: R. Gale

Sent: Saturday, April 12, 2003 3:13 PM

To: Blum, Mike (ECY)

Subject: Re: Robbie - did you receive my e-mail? I did not receive one from you.

om]

I am also wondering what the Lead levels that were found near North West Landing are.

Robbie

>From: "Blum, Mike (ECY)"

>To: 'R. GALE

>Subject: Robbie - did you receive my e-mail? I did not receive one from you.

>Date: Fri, 11 Apr 2003 11:53:31 -0700

>

>I got an auto-reply that the message delivery failed yesterday. Please let me know if you got

```
my e-mail from yesterday or today's e-mail.
>Thanks
>Mike Blum
>360-407-6262
>----Original Message----
>From: Blum, Mike (ECY)
>Sent: Thursday, April 10, 2003 3:22 PM
>To: 'rdgale@
>Subject: Cleanup and risk
>
>Hello Ms Gale.
>Here is some info on the Weyerhaeuser-DuPont cleanup site and some information (the
attachment and the lower link below) related to the impacts
>from the former ASARCO smelter in Ruston (near Tacoma). Hope these help.
> T he link to the Ecology web page about the former DuPont Works site is below (copy and
paste into you web browser):
>http://www.ecy.wa.gov/programs/tcp/sites/weyer/weyerhaeuser.htm
>and, I would read the Fact Sheet and maybe parts of the draft Cleanup Action Plan about the
DuPont Works cleanup
>Call me or write if you have more questions.
>Mike Blum
>360-407-6262
>mblu461@ecy.wa.gov
>----Original Message----
>From: Gibbs, Molly
>Sent: Thursday, April 10, 2003 10:12 AM
>To: Blum, Mike (ECY)
>Subject: link to Risk Assessment question
>Here is the link to the Ecology web page about the Tacoma Smelter Plume (TSP) site and its
off-site impacts. You probably need to copy and paste it
>into your web browser.
>
>http://www.ecy.wa.gov/programs/tcp/sites/tacoma_smelter/tsp_Community_info/tsp_communit
>>tsp community info.htm>
>Questions 8, 9, 11 and 12 address risk assessment regarding arsenic, to be found in the TSP
(Tacoma Smelter Plume) Question and Answers document (the first one on that web page).
>Another brochure piece (draft) is attached.
>Molly Gibbs
>Public Involvement Coordinator
>Department of Ecology
```

- >Southwest Regional Office
- >PO Box 47775
- >Olympia, WA 98504
- >(360) 407-6179
- >mgib461@ecy.wa.gov

From: Blum, Mike (ECY)

Sent: Monday, April 14, 2003 2:52 PM

To: 'R. Gale'

Subject: You are very welcome. Multiple e-mails is not a problem. Take care. Mike Blum - - Dept of Ecology

----Original Message----

From: R. Gale [mailto:rdgale@

Sent: Monday, April 14, 2003 11:23 AM

To: Blum, Mike (ECY) **Subject:** Thank You

Thank you for you help and quick responce. I appologize for several e-mails. I thought of questions at different times as I studied the material. If I had thought about it, I'd have drafted them for one email.

Robbie Gale

MSN 8 helps ELIMINATE E-MAIL VIRUSES. Get 2 months FREE*.

From: Brenda Leech@/

Sent: Wednesday, February 12, 2003 10:43 PM

To: Blum, Mike (ECY)

Subject: Re: FW: DuPont and Steilacoom

Thanks - will do. That is surprising as it was a colorful civilian vs the Apache that frequent our residential skies. Hmmm.

Kind regards,

Brenda Leech Home Loan Consultant

800-240-5698, Ext. 238

"Blum, Mike (ECY)" < MBLU461@ECY.WA.GOV > wrote:

Brenda

Thanks for letting me know about the underscore. I did ask someone else at Ecology about the helicopter issue. She had gotten some complaints/calls about them and from what she has found it, they seem to be related to security at Ft Lewis and the railroad. You might call the public affairs office at Ft Lewis and ask them.

Mike Blum

-----Original Message-----From: Blum, Mike (ECY)

Sent: Tuesday, February 11, 2003 5:20 PM

To: 'brendaleech@

Subject: FW: DuPont and Steilacoom

----Original Message----**From:** Blum, Mike (ECY)

Sent: Monday, February 10, 2003 5:56 PM

To: 'brendaleech@c

Subject: RE: DuPont and Steilacoom

Hello Ms. Leech,

I am the Ecology project manager for the DuPont - Weyerhaeuser cleanup project. There are no impacts, either groundwater or soil (or windblown dust) from the DuPont cleanup site into Steilacoom. The soil contamination remaining at the site is primarily lead and arsenic. The groundwater under part of the site has been impacted by dinitrotoluene (DNT), a compound used in making dynamite. The concentrations are low, but some are above the drinking water standards. The drinking water for DuPont comes from wells upgradient and from a deeper aquifer. The slightly contaminated groundwater at DuPont flows directly west towards Puget Sound. The groundwater contamination is located south of Sequalitchew Creek. From where you live on Starling St, you a quite a distance (5 miles) from the former DuPont Works explosives site. No impacts from soil or groundwater in Steilacoom.

In terms of the helicopter over your property, I have no idea who that was or what they were doing.

One other thing to mention. There is a study going on with the Tacoma Pierce County Health Department to look at impact of arsenic from the old Asarco Smelter that was located in Ruston. Arsenic has been found in soils as far south as Steilacoom and DuPont as well as far north as Maury and Vashon Island and south King County. Results of the Pierce County study are on-going and results have not been released, as far as I know. You can check out the Ecology web page at http://www.ecy.wa.gov/programs/tcp/sites/tacoma_smelter/ts_hp.htm under the Tacoma Smelter Plume project. There is an "underscore" after tacoma and after ts.

One other thing. We are having an informational workshop on Wednesday night (2/12/03) from 7 to 9 PM at the DuPont City Hall. Stop by if you are interested. A second public meeting is happening on 3/12/03, same time and place.

Hope the above information helps. Call or write if you have other questions or concerns.

Mike Blum (360)407-6262 mblu461@ecy.wa.gov

> -----Original Message-----From: Dumar, Laurie

Sent: Monday, February 10, 2003 10:36 AM

To: 'brendaleech@a Cc: Blum, Mike (ECY) Subject: Dupont

Hello Ms. Leech:

I am forwarding your message to Mike Blum, (360) 407-6262, the lead contact for the Dupont Works cleanup site. He should be able to assist you or provide a more appropriate contact.

Also, here is a link to more information about the site: http://www.ecy.wa.gov/programs/tcp/sites/weyer/weyerhaeuser.htm

Have a good day!

Laurie Dumar Dept. of Ecology Phone: 360.407.6606 Fax: 360.407.6989

----Original Message-----**From:** brendaleech@c

Sent: Saturday, February 08, 2003 10:39 AM

To: Dumar, Laurie

Subject: Public feedback on publications section of the Ecology website

Feedback provider:

Brenda Leech,

1311 Starling Street Steilacoom, WA 98388 affiliation: Citizen

Feedback:

search (option selection):

not found

search comments:

Information re: how Steilacoom is affected by the DuPont contamination. A helicopter was recently hovering overing my property at a very low level. I was able to clearly see a man leaning out taking photos. I have a natural spring running the center of my property and approx 50 yards from my home and very near my children's play areas. Is this an area targeted for monitoring. Is there a concern that our soil may be contaminated? Please let me know why the helicopter "hung around" so long and what they were assessing/evaluating.

layout (option selection):

bad

layout comments:

Organize by city within respective county. Query responses should ref date, not just general topic.

general comments:

		•	

From: Blum, Mike

Sent: Wednesday, January 29, 2003 5:14 PM

TO: BILL AND ROSEMARY HEAPS

Subject: Some response to your comments, questions and concerns - DuPont Works Cleanup

Hello Bill and Rosemary Heaps,

Thank you for your comments and questions. I will add them to the comments we receive during the 90-day comment period. All the comments received will be responded to in a document called a Responsiveness Summary and made available to all commenters. I will also respond directly to your comments and concerns here. My numbers (answers/responses) match yours (questions/comments).

- 1. Most of the contamination found at the site is generally immobile and non-leachable ("dormant"). One contaminant that is not is dinitrotoluene (DNT), which is a component of dynamite. That contaminant has gotten into the groundwater, but has not and will not affect the drinking water supplies for DuPont (which includes the entire Northwest Landings development). Low levels of DNT are migrating in groundwater to Puget Sound, but at concentrations that are not harmful to marine organisms or people who eat them (fish, shellfish, etc.). The known locations on site with DNT-impacted soils have already been removed from the site and taken to a hazardous waste landfill. The heavy metals on the site (lead and arsenic) are generally immobile and will not and have not impacted groundwater. The other soil contaminants at the site such as petroleum products and mercury have mostly been removed from the site. Any residual contaminants, other than lead and arsenic, will be removed from the site during the final cleanup action. Lead and arsenic-contaminated soil are the major pollutants remaining on site. The air has not been impacted.
- 2. The danger of excavating lead and arsenic-contaminated soil is the potential for the generation of wind blown dust. Weyerhaeuser and DuPont companies (and more specifically their contractors) have done an excellent job in the past controlling dust generation and should continue to do so in the future. Ecology will ensure that. During the final cleanup action, which includes a mass scraping of the top foot of soil over about 350 acres of the site, there are air monitors set up both around the perimeter of the work area and on the workers themselves to ensure dust is controlled. The method employed is spraying the area with water to moisten the soil, thereby controlling dust. Water trucks spray the areas being scraped as well as the haul roads on the site used to transport the contaminated soil from one location to the designated disposal or placement areas. Again, most of the remaining contaminated soil will be consolidated on-site and capped with protective barrier layers. Only a small percentage of remaining contaminated soil is scheduled to be hauled off-site. Most of the heavily contaminated soils have already been removed from the property, over the past 10 years or so.
- 3. The contaminated soil will be excavated and deposited in "placement areas" on the property. Those areas total approximately 90 acres which is within the footprint of the 187-acre golf course. The contaminated soil will be capped with 6 inches of gravel, then 12 inches of clean soil, then additional topsoil and then turf. The gravel prevents burrowing animals and insects/worms from digging down to the contaminated soil and bringing it back

up to the surface. It also serves as a "warning layer" should golf course workers dig through the top soil and 12 inch soil layers. The 12 inch layer serves as a human health barrier. In interviewing golf course managers, they rarely dig 18 inches into established golf courses. Things such as irrigation lines will be located above the contaminated layer and/or buried deeper but in clean backfill (for irrigation water mains). There is really no need to dig through the cap layers. The contaminated soil layer will be contoured prior to the two engineered capping layers being installed. The golf course construction company will then place the topsoil and turf layer on top. They will not be doing the contouring. The lead and arsenic-contaminated soil has been thoroughly tested and it does not leach (dissolve) and is therefore not a risk to groundwater. That is why Ecology is proposing a permeable cap. The contaminants are not mobile. The property will have a deed restriction so the buyer of the golf course knows what they are buying and the restrictions on what they can do or not do with the property, which will include restrictions against violating the engineered cap over the contaminated soil. The lead and arsenic will not be taken up (absorbed) by the vegetation (grass, shrubs, trees, etc.) that will be planted on the golf course. Golfers will also not be at risk..... even the really bad golfers will be safe from exposure.

Hope that answers your questions. Ecology will be holding two public meetings at the DuPont City Hall from 7:00 to 9:00 PM. One will be on February 12 and the second one on March 12. Please come.

If I can answer any other questions you have, or you have questions about my responses/answers above, please send another e-mail or give me a call.

Mike Blum, Ecology's Project Manager (360)407-6262 mblu461@ecy.wa.gov

You can also find copies of the five documents that are subject to the 90-day comment period at the web address below. We are currently having trouble with some of the documents (people are getting error messages saying they have been denied access), but that should be resolved by Friday.

www.ecy.wa.gov/programs/tcp/sites/weyer/weyerhaeuser.htm

-----Original Message-----**From:** ECY Exchange Admin

Sent: Tuesday, January 28, 2003 8:28 AM

To: Blum, Mike

Subject: FW: Public Comment DuPont Works Cleanup

----Original Message----

From: BILL AND ROSEMARY HEAPS Sent: Monday, January 27, 2003 8:16 PM

To: ECY Exchange Admin

Subject: Public Comment DuPont Works Cleanup

Please forward this message on to Mr. Mike Blum at Ecology.

To Mr. Mike Blum, Ecology Dupont Works Cleanup Site Manager.

My wife and I have lived in Northwest Landing in our Bay Colony condominium since November 2000. We appreciate being able to comment on things like this cleanup that affect our city. Our questions and comments are as follows:

- 1. It appears that this contamination has been somewhat dormant since shutdown of DuPont Works in the 1970s. Is that a correct assumption, or has some things like the local ground water or atmosphere been affected by lead/chemical poisoning?
- 2. Having lived in Bakersfield, CA and over in Richland, WA, we are aware of the dangers of excavating and disposing of contaminated soil with Valley Fever spores or waste products of the making of the atomic bomb and plutonium missile triggers. What are the dangers in excavating and disposing of this contaminated soil? My wife is especially concerned with the material becoming a threat to us as it becomes airborne or deposited on our roads or property while being excavated or shipped.
- 3. We are also not convinced that the capping the proposed golf course site with a layer of dirt and the golf course itself is a safe process. While in Richland, we were warned about blowing tumbleweed off the Hanford Site that contained nuclear contamination. Government officials there went so far as to paint these weeds with a color according to the possible contaminating element. Is the lead/chemical deposits liable to leach into the golf course trees and bushes and pose a threat to golfers or the surrounding area?

Wm. (Bill) and Rosemary Heaps

From:

HEAPS

Sent:

Wednesday, January 29, 2003 8:38 PM

To:

ECY Exchange Admin; Blum, Mike

Subject: Re: Some response to your comments, questions and concerns - DuPont W orks Cl...

Guess I need to go through the postmaster again for this reply to Mike Blum. The email on the message I am replying to must be an in house ECY mail.

Thanks for the response Mike. My wife and I expect to make one of the DuPont meetings.

Bill and Rosemary Heaps

t.	